Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • SA-Water Based (WB) Primer, Enverge™ Water Based Primer, SBEPro™ WB Primer, V-Force™ WB Primer

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company

250 West 96th Street
Indianapolis, IN 46260
United States

firestonemds@bfdp.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Not classified

DSD/DPD • Not classified

2.2 Label Elements

CLP

Hazard statements • No label element(s) required

DSD/DPD

Risk phrases • No label element(s) required

2.3 Other Hazards

CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

DSD/DPD • This product is not considered dangerous under the European Directive 1999/45/EC

United States (US)

According to OSHA 29 CFR 1910.1200 HCS
2.1 Classification of the substance or mixture
   OSHA HCS 2012
   - Reproductive Toxicity 2 - H361
   - Specific Target Organ Toxicity Single Exposure 1 - H370

2.2 Label elements
   OSHA HCS 2012
   **DANGER**

   **Hazard statements**
   - Suspected of damaging fertility or the unborn child. - H361
   - Causes damage to organs - Kidney - H370

   **Precautionary statements**
   **Prevention**
   - Obtain special instructions before use. - P201
   - Do not handle until all safety precautions have been read and understood. - P202
   - Wash thoroughly after handling. - P264
   - Do not eat, drink or smoke when using this product. - P270
   - Wear protective gloves/protective clothing/eye protection/face protection. - P280

   **Response**
   - Specific treatment, see supplemental first aid information. - P321
   - IF exposed or concerned: Get medical advice/attention. - P308+P313

   **Storage/Disposal**
   - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards
   OSHA HCS 2012

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Canada
According to WHMIS

2.1 Classification of the substance or mixture
   WHMIS
   - Toxic - D1B
   - Other Toxic Effects - D2A

2.2 Label elements
   WHMIS
   **
   - Toxic - D1B
   - Other Toxic Effects - D2A

2.3 Other hazards
   WHMIS
   - In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

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See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances
Material does not meet the criteria of a substance.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>CAS:107-21-1 EC Number:203-473-3</td>
<td>0.1% TO 1%</td>
<td>Ingestion/Oral-Rat LD50 • 4700 mg/kg Skin-Rabbit LD50 • 9530 µL/kg</td>
<td>EU DSD/DPD: Annex I: Xn; R22 EU CLP: Annex VI: Acute Tox. 4, H302 OSHA HCS 2012: Eye Irrit. 2A; Repr. 2; STOT SE 3: Resp. Irrit. &amp; Narc.; STOT SE 1 (Kidney)</td>
<td>NDA</td>
</tr>
</tbody>
</table>

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- Foam, CO2 powder, sand, chemical powder.

Unsuitable Extinguishing Media

- No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Non flammable water-based product. Concentration of alcohols is too low to create a fire hazard.

Hazardous Combustion Products

- Irritating and/or toxic gases or fumes such as CO, CO2 may be generated by thermal decomposition or combustion of the product.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

LARGE FIRES: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
SMALL FIRES: Move containers from fire area if you can do it without risk.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE). Avoid breathing mist, vapours, spray. Avoid contact with skin and eyes.

Emergency Procedures
- Keep unauthorized personnel away. Stay upwind. Stop leak if you can do it without risk.

6.2 Environmental precautions
- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Stop leak if you can do it without risk.

SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Wash contaminated area with soap and water to prevent slips.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Use only with adequate ventilation. Wear appropriate personal protective equipment. Avoid breathing mist, vapours, spray. Avoid contact with skin and eyes. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Do not store at temperatures lower than 5°C or over than 90°C.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>Canada Alberta</th>
<th>Canada British Columbia</th>
<th>Canada Manitoba</th>
<th>Canada New Brunswick</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (107-21-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceilings</td>
<td>100 mg/m3 Ceiling (aerosol only)</td>
<td>100 mg/m3 Ceiling</td>
<td>100 mg/m3 Ceiling (aerosol); 50 ppm Ceiling (vapour)</td>
<td>100 mg/m3 Ceiling (aerosol only)</td>
<td>100 mg/m3 Ceiling (aerosol)</td>
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<tr>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>20 mg/m3 STEL (particulate)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWA (particulate)</td>
<td>Not established</td>
<td>Not established</td>
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</table>
### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ethylene glycol (107-21-1)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>50 ppm Ceiling (vapour); 127 mg/m³ Ceiling (vapour)</td>
<td>100 mg/m³ Ceiling (aerosol only)</td>
<td>50 ppm Ceiling (vapour); 127 mg/m³ Ceiling (vapour)</td>
<td>100 mg/m³ Ceiling (aerosol only)</td>
<td>50 ppm Ceiling (mist and vapour); 127 mg/m³ Ceiling (mist and vapour)</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>20 mg/m³ STEL (particulate)</td>
<td>Not established</td>
<td>20 mg/m³ STEL (particulate)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td><strong>TWAs</strong></td>
<td>10 ppm TWA (particulate)</td>
<td>Not established</td>
<td>10 mg/m³ TWA (particulate)</td>
<td>Not established</td>
<td>Not established</td>
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### Exposure Limits/Guidelines (Con’t.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Yukon</th>
<th>Cyprus</th>
<th>Denmark</th>
<th>Germany DFG</th>
<th>Germany TRGS</th>
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<tbody>
<tr>
<td><strong>Ethylene glycol (107-21-1)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TWAs</strong></td>
<td>10 mg/m³ TWA (particulate); 100 ppm TWA (vapour); 250 mg/m³ TWA (vapour)</td>
<td>20 ppm TWA; 52 mg/m³ TWA</td>
<td>10 ppm TWA; 26 mg/m³ TWA; 10 mg/m³ TWA (vapour)</td>
<td>Not established</td>
<td>10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 26 mg/m³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)</td>
</tr>
<tr>
<td><strong>STELs</strong></td>
<td>10 ppm STEL (particulate); 20 mg/m³ STEL (particulate); 125 ppm STEL (vapour); 325 mg/m³ STEL (vapour)</td>
<td>40 ppm STEL; 104 mg/m³ STEL</td>
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<td>Not established</td>
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</tr>
<tr>
<td><strong>Ceilings</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>20 ppm Peak; 52 mg/m³ Peak</td>
<td>Not established</td>
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<tr>
<td><strong>MAKs</strong></td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 ppm TWA MAK; 26 mg/m³ TWA MAK</td>
<td>Not established</td>
</tr>
</tbody>
</table>

### Exposure Control Notations

**Cyprus**
- Ethylene glycol (107-21-1): **Skin**: (Skin-potential for cutaneous absorption)

**Germany TRGS**
- Ethylene glycol (107-21-1): **Skin**: (skin notation)

**Germany DFG**
- Ethylene glycol (107-21-1): **Pregnancy**: (no risk to embryo/fetus if exposure limits adhered to) | **Skin**: (skin notation)

### 8.2 Exposure controls

#### Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal Protective Equipment

**Respiratory**
- Minimize breathing mist/vapor/spray. In case of insufficient ventilation, wear suitable
respiratory equipment.

Eye/Face
- Wear protective eyewear (goggles, face shield, or safety glasses).

Skin/Body
- Wear appropriate gloves.

Environmental Exposure
- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Key to abbreviations
ACGIH = American Conference of Governmental Industrial Hygiene
MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Liquid</th>
<th>Appearance/Description</th>
<th>Blue liquid.</th>
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</thead>
<tbody>
<tr>
<td>Physical Form</td>
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<tr>
<td>Color</td>
<td>Blue</td>
<td>Odor</td>
<td>Data lacking</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>Boiling Point</td>
<td>100 °C(212 °F)</td>
<td>Melting Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
<td>pH</td>
<td>7 to 9</td>
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<tr>
<td>Specific Gravity/Relative Density</td>
<td>1 Water=1</td>
<td>Water Solubility</td>
<td>Soluble</td>
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<tr>
<td>Viscosity</td>
<td>Data lacking</td>
<td>Explosive Properties</td>
<td>Not explosive.</td>
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<tr>
<td>Oxidizing Properties</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Volatility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
<td>Vapor Density</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Data lacking</td>
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<td></td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
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<tr>
<td>Flash Point</td>
<td>Data lacking</td>
<td>UEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
<td>Autoignition</td>
<td>Data lacking</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td>Not flammable.</td>
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<tr>
<td>Environmental</td>
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<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
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<td></td>
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</tbody>
</table>

9.2 Other Information
- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity
- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
- Stable

10.3 Possibility of hazardous reactions
- Hazardous polymerization will not occur.

10.4 Conditions to avoid
Avoid excessive freezing and heat.

10.5 Incompatible materials
- Solution or acid emulsion.

10.6 Hazardous decomposition products
- Carbon monoxide, carbon dioxide, nitrogen and sulphur oxide.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (0.1% TO 1%)</td>
<td>107-21-1</td>
<td>Acute Toxicity: ihl-hmn TCLo:22 mg/m3;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Irritation: eye-rbt 1440 mg/6H MOD; skn-rbt 555 mg open MLD; Reproductive: ihl-mus TCLo:2100 mg/m3/6H (6-15D preg)</td>
</tr>
</tbody>
</table>

**GHS Properties**

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity</td>
</tr>
<tr>
<td>OW/CLP • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration Hazard</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
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</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ Cell Mutagenicity</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/Irritation</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin sensitization</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-RE</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-SE</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity for Reproduction</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Toxic to Reproduction 2</td>
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</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/Irritation</td>
</tr>
<tr>
<td>OW/CLP • Classification criteria not met</td>
</tr>
<tr>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

Target Organs: Kidney
Route(s) of entry/exposure: Inhalation, Skin, Eye, Ingestion
Potential Health Effects
- Inhalation
  - Acute (Immediate): Under normal conditions of use, no health effects are expected.
Chronic (Delayed) ● No data available.

Skin
Acute (Immediate) ● Under normal conditions of use, no health effects are expected.
Chronic (Delayed) ● No data available.

Eye
Acute (Immediate) ● Under normal conditions of use, no health effects are expected.
Chronic (Delayed) ● No data available.

Ingestion
Acute (Immediate) ● Ethylene glycol can cause nausea, vomiting, abdominal pain and weakness, as well as drunkenness, dizziness, stupor, convulsions and coma (symptoms of depression of the central nervous system). Death could result from respiratory arrest or cardiovascular collapse. In humans, a dose of 100 ml may cause death. If the victim survives, kidney failure may develop within the next several days. In some instances, vision disturbances have been reported. The persistence of these lesions could not be determined.
Chronic (Delayed) ● No data available.

Other
Acute (Immediate) ● May affect the kidney.

Reproductive Effects ● May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

Key to abbreviations
MLD = Mild
TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity
● Material data lacking.

12.2 Persistence and degradability
● Material data lacking.

12.3 Bioaccumulative potential
● Material data lacking.

12.4 Mobility in Soil
● Material data lacking.

12.5 Results of PBT and vPvB assessment
● No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
● No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods
Product waste ● Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste ● Dispose of content and/or container in accordance with local, regional, national, and/or...
international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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<tbody>
<tr>
<td>NDA</td>
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<td>NDA</td>
<td>NDA</td>
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<td>NDA</td>
<td>NDA</td>
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</tbody>
</table>

14.6 Special precautions for user

- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
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<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
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<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Belgium

Labor

- Belgium - Substances and Preparations - Carcinogens and Mutagens
  - Ethylene glycol

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>State Right To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
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</tr>
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</table>

Bulgaria

Environment

- Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour
  - Ethylene glycol

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>State Right To Know</th>
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</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
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</tr>
</tbody>
</table>

- Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute
  - Ethylene glycol

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<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
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</tbody>
</table>

- Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual
  - Ethylene glycol

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<tr>
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<tr>
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<td>107-21-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
### Canada

#### Labor
- **Canada - WHMIS - Classifications of Substances**
  - Ethylene glycol 107-21-1 D1B, D2A

- **Canada - WHMIS - Ingredient Disclosure List**
  - Ethylene glycol 107-21-1 1 %

#### Environment
- **Canada - 2004 NPRI (National Pollutant Release Inventory)**
  - Ethylene glycol 107-21-1 Part 1, Group 1 Substance

- **Canada - 2005 NPRI (National Pollutant Release Inventory)**
  - Ethylene glycol 107-21-1 Part 1, Group 1 Substance

- **Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**
  - Ethylene glycol 107-21-1 Not Listed

- **Canada - CEPA - Priority Substances List**
  - Ethylene glycol 107-21-1 Priority Substance List 2 (substance not considered toxic)

- **Canada - DWQ (Drinking Water Quality) - IMACs**
  - Ethylene glycol 107-21-1 Not Listed

#### Other
- **Canada - Accelerated Reduction/Elimination of Toxics (ARET)**
  - Ethylene glycol 107-21-1 Not Listed

### Canada New Brunswick

#### Environment
- **Canada - New Brunswick - Ozone Depleting Substances - Schedule A**
  - Ethylene glycol 107-21-1 Not Listed

- **Canada - New Brunswick - Ozone Depleting Substances - Schedule B**
  - Ethylene glycol 107-21-1 Not Listed

### Denmark

#### Environment
- **Denmark - List of Undesirable Substances - Product Groups/Function**
  - Ethylene glycol 107-21-1 Not Listed

### Europe

#### Other
- **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**
  - Ethylene glycol 107-21-1 Xn; R22

- **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**
  - Ethylene glycol 107-21-1 Not Listed

- **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**
  - Ethylene glycol 107-21-1
• Ethylene glycol 107-21-1 Xn R:22 S:(2)

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
• Ethylene glycol 107-21-1 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases
• Ethylene glycol 107-21-1 S:(2)

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention
• Ethylene glycol 107-21-1 Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting
• Ethylene glycol 107-21-1 Not Listed

Germany - TRGS 505 - Specific Lead Regulations
• Ethylene glycol 107-21-1 Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations
• Ethylene glycol 107-21-1 Not Listed

Environment

Germany - TA Luft - Types and Classes
• Ethylene glycol 107-21-1 Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances
• Ethylene glycol 107-21-1 Not Listed

Germany - TA Luft - Emission Limits for Fibers
• Ethylene glycol 107-21-1 Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts
• Ethylene glycol 107-21-1 Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases
• Ethylene glycol 107-21-1 Not Listed

Germany - TA Luft - Emission Limits for Organic Substances
• Ethylene glycol 107-21-1 Not Listed

Germany - Water Classification (VwVwS) - Annex 1
• Ethylene glycol 107-21-1 Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
• Ethylene glycol 107-21-1 ID Number 105, hazard class 1 - low hazard to waters (footnote 11)

Germany - Water Classification (VwVwS) - Annex 3
• Ethylene glycol 107-21-1 Not Listed

United States

Preparation Date: 20/May/2013
Revision Date: 14/February/2014

Format: EU CLP/REACH Language: English (US)

WHIMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012
**Labor**

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
- Ethylene glycol 107-21-1 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
- Ethylene glycol 107-21-1 Not Listed

**Environment**

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
- Ethylene glycol 107-21-1

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- Ethylene glycol 107-21-1 5000 lb final RQ; 2270 kg final RQ

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
- Ethylene glycol 107-21-1 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
- Ethylene glycol 107-21-1 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
- Ethylene glycol 107-21-1 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
- Ethylene glycol 107-21-1 1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
- Ethylene glycol 107-21-1 Not Listed

**United States - California**

**Environment**

U.S. - California - Proposition 65 - Carcinogens List
- Ethylene glycol 107-21-1 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity
- Ethylene glycol 107-21-1 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
- Ethylene glycol 107-21-1 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
- Ethylene glycol 107-21-1 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
- Ethylene glycol 107-21-1 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
- Ethylene glycol 107-21-1 Not Listed

**United States - Pennsylvania**

**Labor**

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- R22 - Harmful if swallowed.

Last Revision Date: 14/February/2014
Preparation Date: 20/May/2013

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Key to abbreviations

NDA = No data available